#### RAW SEQUENCE LISTING PATENT APPLICATION US/09/042,460

DATE: 08/08/98 TIME: 15:56:28

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This Raw Listing contains the General Information Section and up to the first 5 pages.

1 2		SEQUENCE LISTING
3 4	(1)	General Information: ENTERED
5 6 7 8 9	(i)	APPLICANT: Morin, Gregg B. Allsopp, Richard DePinho, Ronald Greenberg, Roger
10 11	(ii)	TITLE OF INVENTION: Mouse Telomerase Reverse Transcriptase
12 13	(iii)	NUMBER OF SEQUENCES: 101
14 15 16 17 18 19 20 21	(iv)	CORRESPONDENCE ADDRESS:  (A) ADDRESSEE: Townsend and Townsend and Crew LLP (B) STREET: Two Embarcadero Center, Eighth Floor (C) CITY: San Francisco (D) STATE: California (E) COUNTRY: USA (F) ZIP: 94111-3834
22 23 24 25 26 27	(♥)	COMPUTER READABLE FORM:  (A) MEDIUM TYPE: Floppy disk  (B) COMPUTER: IBM PC compatible  (C) OPERATING SYSTEM: PC-DOS/MS-DOS  (D) SOFTWARE: PatentIn Release #1.0, Version #1.30
28 29 30 31 32	(vi)	CURRENT APPLICATION DATA:  (A) APPLICATION NUMBER: US 09/042,460  (B) FILING DATE: 16-MAR-1998  (C) CLASSIFICATION:
33 34 35 36	(vii)	PRIOR APPLICATION DATA:  (A) APPLICATION NUMBER: US 08/724,643  (B) FILING DATE: 01-OCT-1996
37 38 39 40	(vii)	PRIOR APPLICATION DATA:  (A) APPLICATION NUMBER: US 08/844,419  (B) FILING DATE: 18-APR-1997
41 42 43 44	(vii)	PRIOR APPLICATION DATA:  (A) APPLICATION NUMBER: US 08/846,017  (B) FILING DATE: 25-APR-1997
45 46	(Vii)	PRIOR APPLICATION DATA: (A) APPLICATION NUMBER: US 08/851,843

## RAW SEQUENCE LISTING PATENT APPLICATION US/09/042,460

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47		(B) FILING DATE: 06-MAY-1997
48		
49	(Vii)	PRIOR APPLICATION DATA:
50		(A) APPLICATION NUMBER: US 08/854,050
51 52		(B) FILING DATE: 09-MAY-1997
53	(vii)	PRIOR APPLICATION DATA:
54	( * ± ± /	(A) APPLICATION NUMBER: US 08/911,312
55		(B) FILING DATE: 14-AUG-1997
56		(b) FILING DATE: 14-AUG-1997
57	/ <b>* * * *</b> * * * *	DDIOD ADDITIONATION DAMA
58	( \ \ 1 )	PRIOR APPLICATION DATA:
59		(A) APPLICATION NUMBER: US 08/912,951
60		(B) FILING DATE: 14-AUG-1997
61	/*****	DRIAD ADDITAGENTON DAME
62	( \( \tau \)	PRIOR APPLICATION DATA:
63		(A) APPLICATION NUMBER: US 08/915,503
64		(B) FILING DATE: 14-AUG-1997
65	/ <b></b> i	DDIOD ADDITION DATE
66	( ^11)	PRIOR APPLICATION DATA:
67		(A) APPLICATION NUMBER: WO PCT/US97/17618
68		(B) FILING DATE: 01-OCT-1997
69	/xzi i \	PRIOR APPLICATION DATA:
70	( \ \ \ \ \ \ )	
71		(A) APPLICATION NUMBER: WO PCT/US97/17885
72		(B) FILING DATE: 01-OCT-1997
73	(vii)	PRIOR APPLICATION DATA:
74	( • ± ± )	
75		(A) APPLICATION NUMBER: US 08/974,549 (B) FILING DATE: 19-NOV-1997
76		(b) FILING DATE: 19-NOV-199/
77	(vii)	PRIOR APPLICATION DATA:
78	( • = = /	(A) APPLICATION NUMBER: US 08/974,584
. 0 79		(B) FILING DATE: 19-NOV-1997
80		(B) FIBING DATE: 19-NOV-199/
81	(vii)	PRIOR APPLICATION DATA:
82	( • = = )	(A) APPLICATION NUMBER: US 08/979,742
83		(B) FILING DATE: 26-NOV-1997
84		(B) FIBING DATE: 26-NOV-1997
85	(viii)	ATTORNEY/AGENT INFORMATION:
86	( /	(A) NAME: Einhorn, Gregory P.
87		(B) REGISTRATION NUMBER: 38,440
88		
89		(C) REFERENCE/DOCKET NUMBER: 015389-003110US
90	(iv)	TELECOMMUNICATION INFORMATION:
91	( -11 )	(A) TELEPHONE: (415) 576-0200
92		(B) TELEFAX: (415) 576-0300
93		(b) IEEEFAX: (415) 576-0300
94		
95	(2) INFOR	MATION FOR SEQ ID NO:1:
96	,	
97	(i)	SEQUENCE CHARACTERISTICS:
8	· - /	(A) LENGTH: 3496 base pairs
9		(B) TYPE: nucleic acid
		· · · · · · · · · · · · · · · · · · ·

#### RAW SEQUENCE LISTING PATENT APPLICATION US/09/042,460

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103		(11	.) MC	DLECU	JLE 7	YPE:	DNA	(ge	nomi	.c)							
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106		(ix	() FE	ATUF	E:												
107			(	A) N	IAME/	KEY:	-										
108			(	B) I	OCAT	'ION:	1	3496	;								
109	(D) OTHER INFORMATION: /note= "mouse telomerase reverse trascriptase (mTRT) cDNA clone"																
110																	
111	(ix) FEATURE:																
112		(ix	) FE	ATUR	E:												
113	(A) NAME/KEY: misc feature																
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127	GAA	TTCC	GGG	TGGG.	AGGC	CC A	TCCC	GGCC		AGCA	CA A						53
127 128	GAA	TTCC	GGG	TGGG	AGGC	CC A	TCCC	GGCC		AGCA		et T		GC G		ro	53
127 128 129	GAA	TTCC	GGG '	TGGG	AGGC	CC A	TCCC	GGCC		AGCA							53
127 128 129 130									T TG		М	et T	hr A	rg A	la P	ro 5	
127 128 129 130 131	CGT	TGC	CCC	GCG	GTG	CGC	тст	CTG	T TG	CGC	M AGC	et T 1 CGA	hr A TAC	rg A	la P GAG	ro 5 GTG	53 101
127 128 129 130 131 132	CGT	TGC	CCC	GCG	GTG Val	CGC	тст	CTG	T TG	CGC Arg	М	et T 1 CGA	hr A TAC	rg A	la P GAG Glu	ro 5 GTG	
127 128 129 130 131 132 133	CGT	TGC	CCC	GCG	GTG	CGC	тст	CTG	T TG	CGC	M AGC	et T 1 CGA	hr A TAC	rg A	la P GAG	ro 5 GTG	
127 128 129 130 131 132 133	CGT Arg	TGC Cys	CCC Pro	GCG Ala	GTG Val 10	CGC Arg	TCT Ser	CTG Leu	T TG CTG Leu	CGC Arg 15	M AGC Ser	et T 1 CGA Arg	hr A TAC Tyr	rg A CGG Arg	GAG Glu 20	ro 5 GTG Val	101
127 128 129 130 131 132 133 134	CGT Arg	TGC Cys CCG	CCC Pro	GCG Ala GCA	GTG Val 10	CGC Arg	TCT Ser	CTG Leu CGG	T TG. CTG Leu CGC	CGC Arg 15	AGC Ser	et Ti 1 CGA Arg	hr A TAC Tyr GAG	rg A CGG Arg	GAG Glu 20	TO  5  GTG  Val	
127 128 129 130 131 132 133 134 135	CGT Arg	TGC Cys CCG	CCC Pro	GCG Ala GCA Ala	GTG Val 10	CGC Arg	TCT Ser	CTG Leu CGG	T TG CTG Leu CGC Arg	CGC Arg 15	M AGC Ser	et Ti 1 CGA Arg	hr A TAC Tyr GAG	CGG Arg GGC Gly	GAG Glu 20	TO  5  GTG  Val	101
127 128 129 130 131 132 133 134 135 136 137	CGT Arg	TGC Cys CCG	CCC Pro	GCG Ala GCA	GTG Val 10	CGC Arg	TCT Ser	CTG Leu CGG	T TG. CTG Leu CGC	CGC Arg 15	AGC Ser	et Ti 1 CGA Arg	hr A TAC Tyr GAG	rg A CGG Arg	GAG Glu 20	TO  5  GTG  Val	101
127 128 129 130 131 132 133 134 135 136 137	CGT Arg TGG Trp	TGC Cys CCG Pro	CCC Pro CTG Leu	GCG Ala GCA Ala 25	GTG Val 10 ACC Thr	CGC Arg TTT Phe	TCT Ser GTG Val	CTG Leu CGG Arg	CTG Leu CGC Arg 30	CGC Arg 15 CTG Leu	AGC Ser GGG Gly	et Ti 1 CGA Arg CCC Pro	TAC Tyr GAG Glu	CGG Arg GGC Gly 35	GAG Glu 20 AGG Arg	TO 5 GTG Val CGG Arg	101
127 128 129 130 131 132 133 134 135 136 137 138	CGT Arg TGG Trp	TGC Cys CCG Pro	CCC Pro CTG Leu	GCG Ala GCA Ala 25	GTG Val 10 ACC Thr	CGC Arg TTT Phe	TCT Ser GTG Val	CTG Leu CGG Arg	T TG CTG Leu CGC Arg 30	CGC Arg 15 CTG Leu	AGC Ser GGG Gly	et Ti CGA Arg CCC Pro	TAC Tyr GAG Glu	CGG Arg GGC Gly 35	GAG Glu 20 AGG Arg	ro 5 GTG Val CGG Arg	101
127 128 129 130 131 132 133 134 135 136 137 138 139 140	CGT Arg TGG Trp CTT Leu	TGC Cys CCG Pro	CCC Pro CTG Leu CAA Gln	GCG Ala GCA Ala 25 CCC Pro	GTG Val 10 ACC Thr	CGC Arg TTT Phe	TCT Ser GTG Val	CTG Leu CGG Arg AAG Lys	CTG Leu CGC Arg 30 ATC	CGC Arg 15 CTG Leu	AGC Ser GGG Gly	et Ti CGA Arg CCC Pro	TAC Tyr GAG Glu	CGG Arg GGC Gly 35	GAG Glu 20 AGG Arg	ro 5 GTG Val CGG Arg	101 149
127 128 129 130 131 132 133 134 135 136 137 138 139 140	CGT Arg TGG Trp CTT Leu	TGC Cys CCG Pro	CCC Pro CTG Leu	GCG Ala GCA Ala 25 CCC Pro	GTG Val 10 ACC Thr	CGC Arg TTT Phe	TCT Ser GTG Val	CTG Leu CGG Arg	CTG Leu CGC Arg 30 ATC	CGC Arg 15 CTG Leu	AGC Ser GGG Gly	et Ti CGA Arg CCC Pro	TAC Tyr GAG Glu	CGG Arg GGC Gly 35	GAG Glu 20 AGG Arg	ro 5 GTG Val CGG Arg	101 149
127 128 129 130 131 132 133 134 135 136 137 138 139 140 141	CGT Arg TGG Trp CTT Leu	TGC Cys CCG Pro GTG Val	CCC Pro CTG Leu CAA Gln 40	GCG Ala GCA Ala 25 CCC Pro	GTG Val 10 ACC Thr GGG Gly	CGC Arg TTT Phe GAC Asp	TCT Ser GTG Val CCG Pro	CTG Leu CGG Arg AAG Lys 45	CTG Leu CGC Arg 30 ATC	CGC Arg 15 CTG Leu TAC	AGC Ser GGG Gly CGC Arg	et Ti CGA Arg CCC Pro ACT Thr	TAC Tyr GAG Glu TTG Leu 50	CGG Arg GGC Gly 35 GTT Val	GAG Glu 20 AGG Arg GCC Ala	GTG Val CGG Arg	101 149
127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143	CGT Arg TGG Trp CTT Leu	TGC Cys CCG Pro GTG Val	CCC Pro CTG Leu CAA Gln 40	GCG Ala GCA Ala 25 CCC Pro	GTG Val 10 ACC Thr GGG Gly	CGC Arg TTT Phe GAC Asp	TCT Ser GTG Val CCG Pro	CTG Leu CGG Arg AAG Lys 45	CTG Leu CGC Arg 30 ATC Ile	CGC Arg 15 CTG Leu TAC Tyr	AGC Ser GGG Gly CGC Arg	et Ti CGA Arg CCC Pro ACT Thr	TAC Tyr GAG Glu TTG Leu 50	CGG Arg GGC Gly 35 GTT Val	GAG Glu 20 AGG Arg GCC Ala	TO 5 GTG Val CGG Arg CAA Gln	101 149
127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143	CGT Arg TGG Trp CTT Leu	TGC Cys CCG Pro GTG Val	CCC Pro CTG Leu CAA Gln 40	GCG Ala GCA Ala 25 CCC Pro	GTG Val 10 ACC Thr GGG Gly	CGC Arg TTT Phe GAC Asp	TCT Ser GTG Val CCG Pro	CTG Leu CGG Arg AAG Lys 45	CTG Leu CGC Arg 30 ATC Ile	CGC Arg 15 CTG Leu TAC Tyr	AGC Ser GGG Gly CGC Arg	et Ti CGA Arg CCC Pro ACT Thr	TAC Tyr GAG Glu TTG Leu 50	CGG Arg GGC Gly 35 GTT Val	GAG Glu 20 AGG Arg GCC Ala	TO 5 GTG Val CGG Arg CAA Gln	101 149 197
127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144	CGT Arg TGG Trp CTT Leu	TGC Cys CCG Pro GTG Val	CCC Pro CTG Leu CAA Gln 40	GCG Ala GCA Ala 25 CCC Pro	GTG Val 10 ACC Thr GGG Gly	CGC Arg TTT Phe GAC Asp	TCT Ser GTG Val CCG Pro	CTG Leu CGG Arg AAG Lys 45	CTG Leu CGC Arg 30 ATC Ile	CGC Arg 15 CTG Leu TAC Tyr	AGC Ser GGG Gly CGC Arg	et Ti CGA Arg CCC Pro ACT Thr	TAC Tyr GAG Glu TTG Leu 50	CGG Arg GGC Gly 35 GTT Val	GAG Glu 20 AGG Arg GCC Ala	TO 5 GTG Val CGG Arg CAA Gln	101 149 197
127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144	CGT Arg TGG Trp CTT Leu TGC Cys	TGC Cys CCG Pro GTG Val CTA Leu 55	CCC Pro CTG Leu CAA Gln 40 GTG Val	GCG Ala GCA Ala 25 CCC Pro	GTG Val 10 ACC Thr GGG Gly ATG Met	CGC Arg TTT Phe GAC Asp	TCT Ser GTG Val CCG Pro	CTG Leu CGG Arg AAG Lys 45 GGC Gly	CTG Leu CGC Arg 30 ATC Ile	CGC Arg 15 CTG Leu TAC Tyr	AGC Ser GGG Gly CGC Arg CCT Pro	et Ti CGA Arg CCC Pro ACT Thr CCA Pro 65	TAC Tyr GAG Glu TTG Leu 50 CCT Pro	CGG Arg GGC Gly 35 GTT Val	GAG Glu 20 AGG Arg GCC Ala GAC Asp	GTG Val  CGG Arg  CAA Gln  CTT Leu	101 149 197
127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147	CGT Arg TGG Trp CTT Leu TGC Cys	TGC Cys CCG Pro GTG Val CTA Leu 55	CCC Pro CTG Leu CAA Gln 40 GTG Val	GCG Ala GCA Ala 25 CCC Pro TGC Cys	GTG Val 10 ACC Thr GGG Gly ATG Met	CGC Arg TTT Phe GAC Asp CAC His	TCT Ser GTG Val CCG Pro TGG Trp 60	CTG Leu CGG Arg AAG Lys 45 GGC Gly	CTG Leu CGC Arg 30 ATC Ile TCA Ser	CGC Arg 15 CTG Leu TAC Tyr	AGC Ser GGG Gly CGC Arg CCT Pro	et Ti CGA Arg CCC Pro ACT Thr CCA Pro 65	TAC Tyr GAG Glu TTG Leu 50 CCT Pro	CGG Arg GGC Gly 35 GTT Val GCC Ala	GAG Glu 20 AGG Arg GCC Ala GAC Asp	TO 5 GTG Val CGG Arg CAA Gln CTT Leu	101 149 197
127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148	CGT Arg TGG Trp CTT Leu TGC Cys	TGC Cys CCG Pro GTG Val CTA Leu 55	CCC Pro CTG Leu CAA Gln 40 GTG Val	GCG Ala GCA Ala 25 CCC Pro TGC Cys	GTG Val 10 ACC Thr GGG Gly ATG Met	CGC Arg TTT Phe GAC Asp CAC His	TCT Ser GTG Val CCG Pro TGG Trp 60	CTG Leu CGG Arg AAG Lys 45 GGC Gly	CTG Leu CGC Arg 30 ATC Ile TCA Ser	CGC Arg 15 CTG Leu TAC Tyr	AGC Ser GGG Gly CGC Arg CCT Pro	et Ti CGA Arg CCC Pro ACT Thr CCA Pro 65	TAC Tyr GAG Glu TTG Leu 50 CCT Pro	CGG Arg GGC Gly 35 GTT Val GCC Ala	GAG Glu 20 AGG Arg GCC Ala GAC Asp	TO 5 GTG Val CGG Arg CAA Gln CTT Leu	101 149 197 245
127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148	CGT Arg TGG Trp CTT Leu TGC Cys	TGC Cys CCG Pro GTG Val CTA Leu 55	CCC Pro CTG Leu CAA Gln 40 GTG Val	GCG Ala GCA Ala 25 CCC Pro TGC Cys	GTG Val 10 ACC Thr GGG Gly ATG Met	CGC Arg TTT Phe GAC Asp CAC His	TCT Ser GTG Val CCG Pro TGG Trp 60	CTG Leu CGG Arg AAG Lys 45 GGC Gly	CTG Leu CGC Arg 30 ATC Ile TCA Ser	CGC Arg 15 CTG Leu TAC Tyr	AGC Ser GGG Gly CGC Arg CCT Pro	et Ti CGA Arg CCC Pro ACT Thr CCA Pro 65	TAC Tyr GAG Glu TTG Leu 50 CCT Pro	CGG Arg GGC Gly 35 GTT Val GCC Ala	GAG Glu 20 AGG Arg GCC Ala GAC Asp	TO 5 GTG Val CGG Arg CAA Gln CTT Leu	101 149 197 245
127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150	CGT Arg TGG Trp CTT Leu TGC Cys	TGC Cys CCG Pro GTG Val CTA Leu 55	CCC Pro CTG Leu CAA Gln 40 GTG Val	GCG Ala GCA Ala 25 CCC Pro TGC Cys	GTG Val 10 ACC Thr GGG Gly ATG Met	CGC Arg TTT Phe GAC Asp CAC His	TCT Ser GTG Val CCG Pro TGG Trp 60 TCC Ser	CTG Leu CGG Arg AAG Lys 45 GGC Gly CTG Leu	CTG Leu CGC Arg 30 ATC Ile TCA Ser	CGC Arg 15 CTG Leu TAC Tyr CAG Gln	AGC Ser GGG Gly CGC Arg CCT Pro CTG Leu 80	et Ti CGA Arg CCC Pro ACT Thr CCA Pro 65 GTG Val	TAC Tyr  GAG Glu  TTG Leu 50  CCT Pro	CGG Arg GGC Gly 35 GTT Val GCC Ala AGG Arg	GAG Glu 20 AGG Arg GCC Ala GAC Asp	CGG Arg CAA Gln CTT Leu GTG Val 85	101 149 197 245
127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150	CGT Arg TGG Trp CTT Leu TGC Cys	TGC Cys CCG Pro GTG Val CTA Leu 55 TTC Phe	CCC Pro CTG Leu CAA Gln 40 GTG Val CAC His	GCG Ala GCA Ala 25 CCC Pro TGC Cys	GTG Val 10 ACC Thr GGG Gly ATG Met	CGC Arg TTT Phe GAC Asp CAC His TCA Ser 75	TCT Ser GTG Val CCG Pro TGG Trp 60 TCC Ser	CTG Leu CGG Arg AAG Lys 45 GGC Gly CTG Leu	CTG Leu CGC Arg 30 ATC Ile TCA Ser AAA Lys	CGC Arg 15 CTG Leu TAC Tyr CAG Gln GAG Glu	AGC Ser GGG Gly CGC Arg CCT Pro CTG Leu 80	et Ti CGA Arg CCC Pro ACT Thr CCA Pro 65 GTG Val	TAC Tyr  GAG Glu  TTG Leu 50  CCT Pro  GCC Ala	CGG Arg GGC Gly 35 GTT Val GCC Ala AGG Arg	GAG Glu 20 AGG Arg GCC Ala GAC Asp GTT Val	CGG Arg CAA Gln CTT Leu GTG Val 85	101 149 197 245
127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150	CGT Arg TGG Trp CTT Leu TGC Cys	TGC Cys CCG Pro GTG Val CTA Leu 55 TTC Phe	CCC Pro CTG Leu CAA Gln 40 GTG Val CAC His	GCG Ala GCA Ala 25 CCC Pro TGC Cys	GTG Val 10 ACC Thr GGG Gly ATG Met	CGC Arg TTT Phe GAC Asp CAC His TCA Ser 75	TCT Ser GTG Val CCG Pro TGG Trp 60 TCC Ser	CTG Leu CGG Arg AAG Lys 45 GGC Gly CTG Leu	CTG Leu CGC Arg 30 ATC Ile TCA Ser AAA Lys	CGC Arg 15 CTG Leu TAC Tyr CAG Gln GAG Glu	AGC Ser GGG Gly CGC Arg CCT Pro	et Ti CGA Arg CCC Pro ACT Thr CCA Pro 65 GTG Val	TAC Tyr  GAG Glu  TTG Leu 50  CCT Pro  GCC Ala	CGG Arg GGC Gly 35 GTT Val GCC Ala AGG Arg	GAG Glu 20 AGG Arg GCC Ala GAC Asp GTT Val	CGG Arg CAA Gln CTT Leu GTG Val 85	101 149 197 245

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154																	
155	GAG	CTG	CTT	AAC	GAG	GCC	AGA	GGC	GGG	CCT	ccc	ATG	GCC	TTC	ACT	AGT	389
156	Glu	Leu	Leu	Asn	Glu	Ala	Arg	Gly	Gly	Pro	Pro	Met	Ala	Phe	Thr	Ser	
157				105					110					115			
158																	
159	AGC	GTG	CGT	AGC	TAC	TTG	CCC	AAC	ACT	GTT	ATT	GAG	ACC	CTG	CGT	GTC	437
160	Ser	Val	Arg	Ser	Tyr	Leu	Pro	Asn	Thr	Val	Ile	Glu	Thr	Leu	Arg	Val	
161			120					125					130				
162		~~~															
163	AGT	GGT	GCA	TGG	ATG	CTA	CTG	TTG	AGC	CGA	GTG	GGC	GAC	GAC	CTG	CTG	485
164	ser	GTA	Ala	Trp	Met	Leu		Leu	Ser	Arg	Val	Gly	Asp	Asp	Leu	Leu	
165 166		135					140					145					
167	ama	шха	ama	ama	<b>aa</b> .	~~	mam	~~~									
168	U 1	TAC	CTG	CTG	GCA	CAC	TGT	GCT	CTT	TAT	CTT	CTG	GTG	CCC	CCC	AGC	533
169	150	ıyı	Leu	ьeu	АТА		cys	АТа	Leu	Tyr		Leu	Val	Pro	Pro		
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171	ጥርጥ	מממ	ሞልሮ	CAG	ama.	mam.	aaa	mam	000	ama	m	~					
172	Cvs	Δla	TAC Tyr	Gln	Val	Cvc	GGG	Cor	Dec	CTG	TAC	CAA	ATT	TGT	GCC	ACC	581
173	9,5		- 7 -	GIII	170	Cys	СТУ	Set	PIO	175	туг	GIN	тте	cys		Thr	
174					170					1/3					180		
175	ACG	GAT	ATC	TGG	CCC	тст	GTG	TCC	CCT	አረሞ	ሞልሮ	N C C	aaa	3.00	003	aaa	600
176	Thr	Asp	Ile	Trp	Pro	Ser	Val	Ser	Δla	Ser	Tur	Ara	Dro	ACC	Ara	Dro	629
177				185		201	, , ,	501	190	Sel	ı yı	Arg	PIO	195	Arg	PIO	
178														193			
179	GTG	GGC	AGG	AAT	TTC	ACT	AAC	CTT	AGG	TTC	тта	CAA	CAG	ΔͲሮ	λλC	ACC	677
180	Val	Gly	Arg	Asn	Phe	Thr	Asn	Leu	Arg	Phe	Leu	G]n	Gln	Tle	I.VS	Ser	677
181		_	200					205	,				210		-,5	DCI	
182																	
183	AGT	AGT	CGC	CAG	GAA	GCA	CCG	AAA	CCC	CTG	GCC	TTG	CCA	TCT	CGA	GGT	725
184	Ser	Ser	Arg	Gln	Glu	Ala	Pro	Lys	Pro	Leu	Ala	Leu	Pro	Ser	Arq	Gly	
185		215					220					225				-	
186																	
187	ACA	AAG	AGG	CAT	CTG	AGT	CTC	ACC	AGT	ACA	AGT	GTG	CCT	TCA	GCT	AAG	773
188	Thr	Lys	Arg	His	Leu	Ser	Leu	Thr	Ser	Thr	Ser	Val	Pro	Ser	Ala	Lys	
189	230					235					240					245	
190 191	330	000	3.03	maa	m												
191	AAG	N T o	AGA	TGC	TAT	CCT	GTC	CCG	AGA	GTG	GAG	GAG	GGA	CCC	CAC	AGG	821
193	гуѕ	АТА	Arg									Glu	Gly	Pro	His	Arg	
194					250					255					260		
195	CAG	CTC	CITE N	CCA	200	003	ma s	aaa									
196	Gln	Ual GIG	CTA	Dro	Thr	Dro	TCA	GGC G1	AAA	TCA	TGG	GTG	CCA	AGT	CCT	GCT	869
197	<b>011.</b>	<b>*</b> u	Leu	265	1111	FIU	Ser	сту	цув 270	ser	Trp	vaı	Pro		Pro	Ala	
198				203					270					275			
199	CGG	TCC	CCC	GAG	GTG	ССТ	АСТ	GCA	GΔG	λλλ	CAT	ጥጥረ	TICTE	mam	7 7 7	aa.	215
200	Ara	Ser	Pro	Glu	Val	Pro	Thr	Ala	Glu	naa Luc	AAL	LEU	COT	TOL	AAA Luc	GGA Gl	917
201	,		280			•		285	JIU	-Jy 5	voh	neu	290	per	пĀR	стА	
202													270				
203	AAG	GTG	TCT	GAC	CTG	AGT	CTC	тст	GGG	TCG	GTG	TGC	ጥርም	ΔΔΔ	מאמ	ልልጣ	965
204	Lys	Val	Ser	Asp	Leu	Ser	Leu	Ser	Glv	Ser	Val	Cvs	Cvs	Lvs	Hie	AAG T.ve	303
205	-	295		•			300	_	- 3			305	-,5	_,5		-73	

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208	Pro	Ser	Ser	Thr	Ser	Leu	Leu	Ser	Pro	Pro	Arg	Gln	Asn	Ala	Phe	Gln	1013
209	310					315					320					325	
210																	
211 212	CTC	AGG	CCA	TTT	ATT	GAG	ACC	AGA	CAT	TTC	CTT	TAC	TCC	AGG	GGA	GAT	1061
212	rea	Arg	PIO	Pne	330	GIU	Thr	Arg	His		Leu	Tyr	Ser	Arg		Asp	
214					330					335					340		
215	GGC	CAA	GAG	CGT	СТА	AAC	ccc	ТСΑ	ጥጥር	СПА	כיזיכי	ACC	አአሮ	CTTC	C A C	COM	1100
216	Gly	Gln	Glu	Arg	Leu	Asn	Pro	Ser	Phe	Leu	Leu	Ser	Asn	Len	Gln	Pro	1109
217	_			345					350					355	01	110	
218																	
219	AAC	TTG	ACT	GGG	GCC	AGG	AGA	CTG	GTG	GAG	ATC	ATC	TTT	CTG	GGC	TCA	1157
220 221	Asn	Leu	Thr	Gly	Ala	Arg	Arg		Val	Glu	Ile	Ile		Leu	Gly	Ser	
221			360					365					370				
223	AGG	ССТ	AGG	ΔαΔ	<b>ጥ</b> ሮ ል	GGA	CCA	CTC	maa.	Maa	202	ara	aam	am.	maa		
224	Arg	Pro	Arg	Thr	Ser	Glv	Pro	Len	Cvs	AGG	Thr	Hie	Ara	CTA	TCG	CGT	1205
225		375	3			1	380		o j s	9		385	ALG	Leu	Set	Arg	
226																	
227	CGA	TAC	TGG	CAG	ATG	CGG	CCC	CTG	TTC	CAA	CAG	CTG	CTG	GTG	AAC	CAT	1253
228	Arg	Tyr	Trp	Gln	Met	Arg	Pro	Leu	Phe	Gln	Gln	Leu	Leu	Val	Asn	His	
229 230	390					395					400					405	
230	GCA	GAG	TICC	CAA	m a m	аша	202	ama	ama	100	ma.						
232	Ala	Glu	TGC Cys	Gln	TUT	Ual	AGA	LOU	LOU	AGG	TCA	CAT	TGC	AGG	TTT	CGA	1301
233		014	Cys	OIII	410	AGT	Arg	ьец	геп	415	ser	HIS	cys	Arg	420	Arg	
234										415					420		
235	ACA	GCA	AAC	CAA	CAG	GTG	ACA	GAT	GCC	TTG	AAC	ACC	AGC	CCA	CCG	CAC	1349
236	Thr	Ala	Asn	Gln	Gln	Val	Thr	Asp	Ala	Leu	Asn	Thr	Ser	Pro	Pro	His	
237				425					430					435			
238 239	CTC.	λmα	CAT	mma	ama	000	ama.	a.a									
240	Leu	Met	GAT Asp	LOU	LOU	Ara	CTG	UAC	AGC	AGT	CCC	TGG	CAG	GTA	TAT	GGT	1397
241			440	<b>100</b>	nea	nr 9	neu	445	Ser	ser	PIO	тгр	450	vaı	Tyr	GTÀ	
242								110					430				
243	TTT	CTT	CGG	GCC	TGT	CTC	TGC	AAG	GTG	GTG	TCT	GCT	AGT	CTC	TGG	GGT	1445
244	Phe	Leu	Arg	Ala	Cys	Leu	Cys	Lys	Val	Val	Ser	Ala	Ser	Leu	Trp	Gly	
245		455					460					465			_	-	
246 247	3.00	3.00	<b>C</b>	3 3 m	a. a	~~~											
248	Thr	AGG	CAC	AAT	GAG	CGC	CGC	TTC	TTT	AAG	AAC	TTA	AAG	AAG	TTC	ATC	1493
249	470	ALG	His	ASII	GIU	475	Arg	Pne	Pne	Lys		Leu	Lys	Lys	Phe		
250	_ , •					± , J					480					485	
251	TCG	TTG	GGG	AAA	TAC	GGC	AAG	CTA	TCA	CTG	CAG	GAA	СТС	ΔТС	таа	ΔAG	1541
252	Ser	Leu	Gly	Lys	Tyr	Gly	Lys	Leu	Ser	Leu	Gln	Glu	Leu	Met	Trp	Lvs	エンチエ
253					490	-	_			495			_		500	-1-	
254																	
255	ATG	AAA	GTA	GAG	GAT	TGC	CAC	TGG	CTC	CGC	AGC	AGC	CCG	GGG	AAG	GAC	1589
256 257	Met	гÀ2	Val	GLU 505	Asp	cys	Hls			Arg	Ser	Ser			Lys	Asp	
258				505					510					515			
<del>-</del>																	

# **SEQUENCE VERIFICATION REPORT** PATENT APPLICATION *US/09/042,460*

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